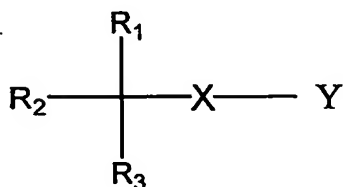


- 32 -

CLAIMS

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1. A hair treatment composition comprising a molecule having the following formula:



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in which R_1 , R_2 and R_3 are independently selected from a methyl, ethyl, propyl group or mixtures thereof; X is a substituted or un-substituted alkyl or alkenyl chain and Y is an amine or hydroxy group.

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2. A hair treatment composition according to claim 1 in which X is substituted with an amino or hydroxy group.

3. A hair treatment composition according to any preceding claim in which the total number of carbon atoms in the molecule is from 3 to 12.

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4. A hair treatment composition according to any preceding claim in which the molecule comprises at least two hydroxy groups, amino groups or mixtures thereof and where n is the total number of carbon atoms in the molecule such that each OH or NH_2 is positioned with

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- 33 -

0.5n or less carbon atoms directly between it and all other OH or NH₂ groups.

5. A hair treatment composition according to any preceding
5 claim in which R₁, R₂ and R₃ are all methyl groups.
6. A hair treatment composition according to any preceding
claim in which the molecule is a diol.
- 10 7. A hair treatment composition according to any preceding
claim in which the molecule is 3,3-dimethyl-1,2-
butandiol.
8. A hair treatment composition according to any preceding
15 claim further comprising a surfactant.
9. A hair treatment composition according to any preceding
claim which further comprises a betaine.
- 20 10. A hair treatment composition according to any preceding
claim which comprises an aqueous base.
11. Use of a composition according to any preceding claim
for smoothing hair.
- 25 12. Use of a composition according to any one of claims 1
to 10 for aligning hair.
13. Use of a composition according to any one of claims 1
30 to 10 for preventing damage to the hair.

- 34 -

14. A method of treating hair by applying a composition according to any one of claims 1 to 10 to the hair.